

brevican (H-94): sc-292927

BACKGROUND

Brain tissue expresses a number of different proteoglycans, including both heparan sulfate- and chondroitin sulfate-containing species. While heparan sulfate proteoglycans are present mainly on the cell surface, chondroitin sulfate proteoglycans (CSPGs) are distributed mainly in extracellular spaces of the brain. Brevican is a brain proteoglycan of the aggrecan/versican/neurocan family. In the adult brain, the brevican core protein undergoes proteolytic cleavage and exists as a full-length form, a carboxy-terminal fragment and an amino-terminal fragment. This protein is named brevican since it is the shortest core protein in this family, from the Latin word "*brevis*", meaning "short". A significant amount of brevican devoid of any glycosaminoglycan chains is present in brain, indicating that brevican is a "part-time" proteoglycan. The gene which encodes brevican maps to mouse chromosome 3 between microsatellite markers D3Mit22 and D3Mit11.

CHROMOSOMAL LOCATION

Genetic locus: BCAN (human) mapping to 1q23.1; Bcan (mouse) mapping to 3 F1.

SOURCE

brevican (H-94) is a rabbit polyclonal antibody raised against amino acids 97-190 mapping near the N-terminus of brevican of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

brevican (H-94) is recommended for detection of brevican of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

brevican (H-94) is also recommended for detection of brevican in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for brevican siRNA (h): sc-41899, brevican siRNA (m): sc-41900, brevican shRNA Plasmid (h): sc-41899-SH, brevican shRNA Plasmid (m): sc-41900-SH, brevican shRNA (h) Lentiviral Particles: sc-41899-V and brevican shRNA (m) Lentiviral Particles: sc-41900-V.

Molecular Weight of full-length brevican: 145 kDa.

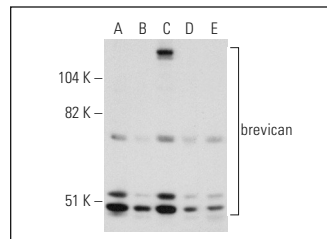
Molecular Weight of brevican N-/C-terminal cleavage products: 50/80 kDa.

Positive Controls: brevican (h2): 293T Lysate: sc-113884, HeLa whole cell lysate: sc-2200 or MCF7 whole cell lysate: sc-2206.

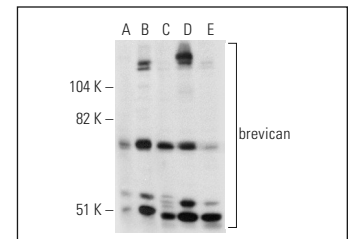
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



brevican (H-94): sc-292927. Western blot analysis of brevican expression in COL0320DM (A), SH-SY5Y (B), Y79 (C), T98G (D) and U-251-MG (E) whole cell lysates.



brevican (H-94): sc-292927. Western blot analysis of brevican expression in non-transfected 293T: sc-117752 (A), human brevican transfected 293T: sc-113884 (B), MCF7 (C), HeLa (D) and CCRF-CEM (E) whole cell lysates.

STORAGE

Store at 4° C, **DO NOT FREEZE** - Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.


 MONOS
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Guaranteed

Try **aggrecan/brevican (D-4): sc-166951** or **brevican (2): sc-135849**, our highly recommended monoclonal alternatives to brevican (H-94).